

Amendment to the ABSTRACT

Kindly replace the Abstract with the following abstract.

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ABSTRACT

An apparatus and a method to estimate the channel response for a set of subcarriers in an OFDM receiver. The receiver receives a packet of information that includes a known transmitted part having known subcarrier values, and includes a signal-to-tone transformer to determine the subcarriers of a signal corresponding to a received packet. For each subcarrier, the method stores a function of an initial estimate of the channel response for the subcarrier, and accepts a post-channel correction pre-decision constellation point value for the subcarrier. The method further includes making a decision using the pre-decision constellation point value, re-modulating the decision to form a post-decision constellation point value, and forming a complex valued product of the function of the first estimate for the subcarrier and the complex-valued ratio of the pre-decision and post-decision values to forms a measure of the current channel estimate to use for updating the stored quantity.--